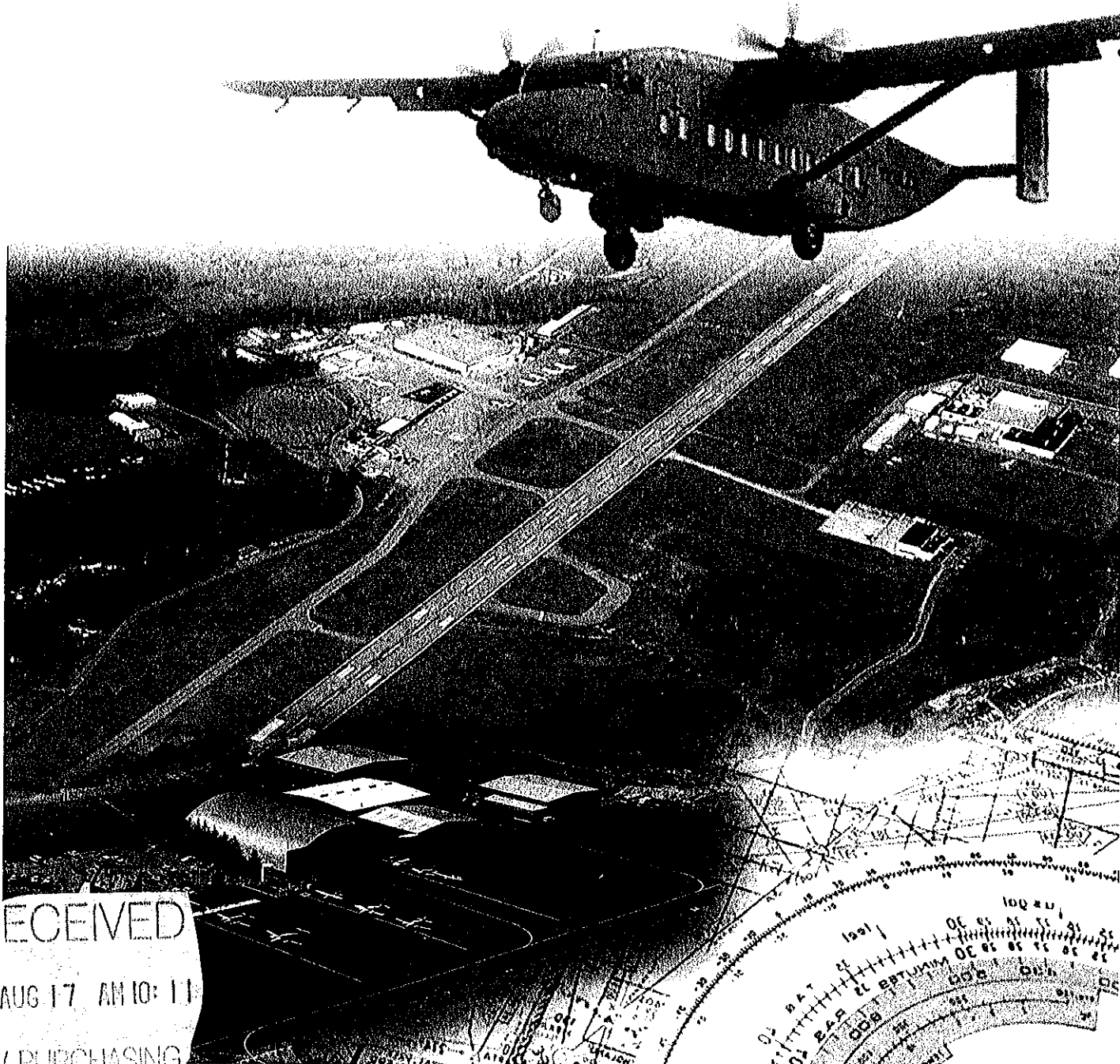


*Expression of Interest for the  
West Virginia Army National Guard for the  
Design of Additional Parking Apron  
Bridgeport, West Virginia*



RFQ DEFK11008

August 18, 2010



RECEIVED

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WV PURCHASING  
DIVISION



August 18, 2010

West Virginia Department of Administration  
Purchasing Division  
2019 Washington Street, East  
Post Office Box 50130  
Charleston, West Virginia 25305-0130

**Re: Expression of Interest for  
Additional Apron Project at the  
Fixed Wing Army Aviation  
Training Site in Bridgeport, WV  
Req. #: DEFK11008**

Dear Selection Committee:

On behalf of Chapman Technical Group, I am pleased to submit this statement of qualifications as a formal expression of interest in providing the required Architectural and/or Engineering services for the project to construct additional apron space for the Fixed Wing Parking Apron at the Fixed Wing Army Aviation Training Site in Bridgeport, West Virginia.

Chapman Technical Group is a full service consulting firm specializing in airport planning and development, architecture/interior design, civil engineering, environmental engineering, landscape architecture/site development and surveying. Our main office is located in St. Albans, West Virginia with branch offices located in Buckhannon and Martinsburg, West Virginia. A brief overview of our company is included in **Section 1**.

Chapman Technical Group has been involved in airport planning and engineering in West Virginia for over twenty-five years. We currently serve 12 airport clients in West Virginia, and airport consulting now represents over a third of our company's business. Our Buckhannon office is dedicated almost exclusively to airport engineering, and it is geared up to efficiently address the planning and design challenges associated with intricate design and construction projects. **Section 2** contains brief resumes of key members of the project team who are immediately available to work on the apron expansion project. The professional backgrounds of these people, described in capsule summaries below, further evidence the professional competence of our design and construction management team. After further review and consideration, I truly believe that you will undoubtedly see that our team is exceptionally qualified to provide the design services you require.

43 East Main Street  
Buckhannon, WV 26201

304.472.8914  
FAX 304.472.8915

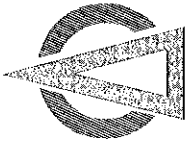
St. Albans, WV  
Martinsburg, WV

[www.chaptech.com](http://www.chaptech.com)



West Virginia Department of Administration  
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Page Two

- **Robert "Greg" Belcher** is our Senior Vice President of Engineering. He is a graduate of the West Virginia Institute of Technology and is registered as a Professional Engineer in West Virginia and Ohio. His 25 years of experience have encompassed a broad range of engineering projects. He is the responsible engineer overseeing all engineering work performed by our company, and he is the supervisor of our quality assurance process. He recently served as President of the West Virginia Association of Consulting Engineers, one of several associations whose mission it is to foster and uphold the highest ethical and technical standards of the profession.
- **Brian Huffman** is the General Manager of the Buckhannon office where most of our airport design work is done. He is a graduate of West Virginia University. In addition to serving as a project manager, he is responsible for representing the airport portion of our business to our company's Management Committee. He also provides general oversight of the administration of federal and state airport grants and strives to develop a close working relationship with state and federal funding agencies to ensure that our clients are in compliance with all applicable regulations. He is very familiar with the special nature of airports, aviation and the FAA, having served on an airport authority, and has managed, quite possibly, more airport projects than any other engineer in the state. His most recent project management experience is with the construction of the new Mingo County Airport in Varney, West Virginia.
- **Shawn Tucker**. I am the Assistant General Manager of the Buckhannon office and our principal airport design and construction project manager. I am a graduate of Fairmont State University and am registered as a Professional Engineer in West Virginia. My most recent projects include the construction of a parallel taxiway at the Eastern West Virginia Regional Airport; the installation of a perimeter fencing system at the Wyoming County Airport; the construction of an airport access road at the Philippi-Barbour County Regional Airport; the rehabilitation of Runway 7-25 at the Mason County Airport; and the rehabilitation of the general aviation apron at the Raleigh County Memorial Airport. During my tenure with Chapman Technical Group, I have dealt with practically every type of airport development project that is typical of this business.
- **Walt Mitchell** is the retired Manager of the Charleston FAA Airway Facilities Sector Field Office, and he has been with our company for over 14 years. Walt assists with the design of airfield electrical projects and assists the design engineers and project managers with issues relating to airfield electrical systems. He serves as our principal airport construction observer and field representative for design, construction, planning and airport airspace analysis survey projects. Walt has spent his entire career working on airport installations and is intimately familiar with the FAA, airport operations and maintenance, and all of the electronic paraphernalia found on



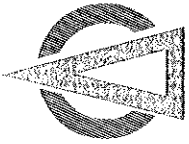
West Virginia Department of Administration  
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Page Three

and near an airfield. Quite often we avail ourselves of Walt's many contacts in the FAA's Eastern Region and Washington Headquarters.

- **Jeff Bubar** is our principal aviation planning consultant. He is a graduate of the University of Maine and West Virginia University. He has 39 years of experience in the aviation business as a military and corporate pilot, airport manager and owner of a small business that contracted with the FAA and the State of West Virginia to conduct Airport Master Records inspections at the state's general aviation airports. His wealth of knowledge and experience in aviation matters is an invaluable resource for both our airport design team and our clients to draw upon.

Most airport development projects require the assistance of various specialty consulting firms in areas such as aerial photogrammetry, environmental investigation, and structural, mechanical and geotechnical engineering. We are careful to collaborate with only those specialty firms that we know are fully capable of providing us with the information that we need, in a timely way, to complete our design work and assist, where needed, in the administration of projects under construction. Specialty firms that we have worked with and may call upon, depending on the nature of the project, include:

- **H.C. Nutting, a Terracon Company - Geotechnical and Materials Testing Services**
  - Located in Charleston, West Virginia
  - Principal Contact: Yogesh Rege
- **Photo Science, Inc. - Photogrammetric Mapping Services**
  - Located in Lexington, Kentucky
  - Principal Contact: Jack Mitchell
- **Research Environmental and Industrial Consultants, Inc. - Environmental Assessment Services**
  - Located in Beckley, West Virginia
  - Principal Contact: Ed Kirk
- **CAS Structural Engineering - Architectural Structural Services**
  - Located in Charleston, West Virginia
  - Principal Contact: Carol Stevens
- **Harper Engineering - Architectural Mechanical Services**
  - Located in St. Albans, West Virginia
  - Principal Contact: Jason Harper



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**Section 3** lists all of the airport projects in design, under construction or completed by Chapman Technical Group since the year 2000 and representative project descriptions of some of our work. Upon close examination of the project items included in this attachment, I believe you will see that we have successfully designed and managed through construction practically every type of airport development project, including multiple apron construction and rehabilitation projects, on airports throughout the state. I feel that our substantial previous experience on apron construction and rehabilitation projects puts our company in an excellent position to provide the design phase engineering services you require. For ease of reference, the pertinent apron construction and rehabilitation projects we have recently completed are as follows:

- **Upshur County Regional Airport**
  - Construct Aircraft Parking Apron and Access Taxiway
  - Rehabilitate Main Apron
  
- **Raleigh County Memorial Airport**
  - Rehabilitate Main Apron
  - Rehabilitate General Aviation Apron
  
- **Mingo County Airport (New Airport)**
  - Construct Partial Parallel Taxiway and Apron
  
- **Eastern West Virginia Regional Airport**
  - Construct Terminal Aircraft Parking Apron
  - Construct South Aircraft Parking Apron
  - Rehabilitate General Aviation Apron
  
- **Philippi-Barbour County Regional Airport**
  - Construct Aircraft Parking Apron
  
- **Grant County Airport**
  - Rehabilitate Main Apron and Construct Taxiway

It is really for others to assess our reputation and our personal and professional integrity and competency, and to that end, we invite you to contact any of the references included in **Section 4** of this document. As previously stated, we currently enjoy working for twelve of the twenty-three West Virginia airports that receive AIP grant funds. As you can see upon reviewing **Section 3**, we currently enjoy a significant amount of repeat business. I do not believe that we would enjoy either our market share or such a significant amount of repeat business if an adverse reputation preceded us.



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We sincerely appreciate the opportunity to express our interest in providing the design phase engineering services you require for the apron expansion project at the Fixed Wing Army Aviation Training Site. Our company has enjoyed the privilege of working with both the Air and Army National Guards in the past and fully understands the high level of execution and communication required to achieve the successful outcome desired with any development project. We are anxious for the opportunity to once again work with the Army National Guard and provide our professional services which we feel are second to none. We would very much appreciate a personal interview to present our project team and further discuss your upcoming project. If you have any questions or comments concerning our capabilities or the materials presented in this expression of interest package, please don't hesitate to call me at (304) 472-8914.

Very truly yours,

**CHAPMAN TECHNICAL GROUP**

Shawn D. Tucker, P.E.  
Project Manager

Attachments

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**West Virginia Code §5A-3-10a states:** No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

**DEFINITIONS:**

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

**EXCEPTION:** The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

**WITNESS THE FOLLOWING SIGNATURE**

Vendor's Name: Chapman Technical Group

Authorized Signature:  Date: 8/18/2010

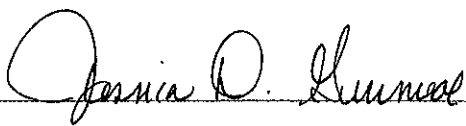
State of West Virginia

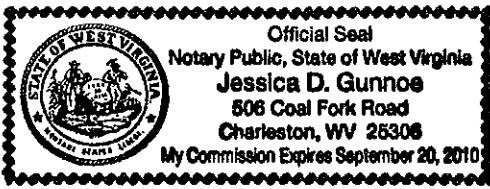
County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 18<sup>th</sup> day of August, 2010.

My Commission expires September 20, 2010.

AFFIX SEAL HERE

NOTARY PUBLIC 





**1**

**Overview of  
Chapman Technical Group**

**2**

**Project Team**

**3**

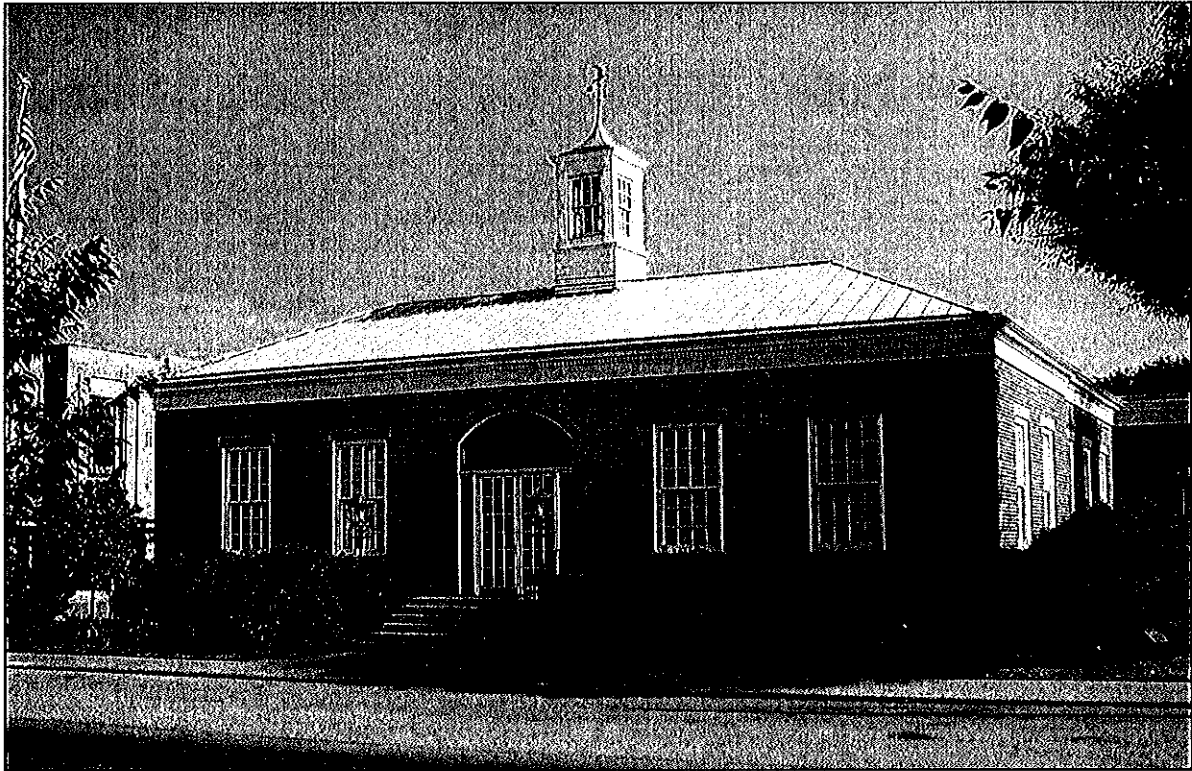
**Project Experience**

**4**

**References**



## Company Overview



*Chapman Technical Group's St. Albans Office*

**C**hapman Technical Group is a full-service consulting firm with offices in St. Albans, Buckhannon, and Martinsburg, West Virginia offering an extensive range of professional architectural, engineering, interior design and landscape architectural services. Established in 1984, Chapman Technical Group has steadily grown to a diverse firm of professionals, many of whom were educated in West Virginia colleges and universities. We have achieved an outstanding reputation for providing high-quality design projects, while meeting client schedules and budgets and have received numerous awards for our work.

Our facilities are both state-of-the-art and architecturally significant. Our St. Albans office is a former post office and is now on the National Register of Historic Places.

*Chapman Technical Group offers a broad range of professional services.*

- Airport Design
- Architecture
- Civil Engineering
- Fire Pumping & Protection
- Interior Design
- Landscape Architecture
- Recreational Facilities
- Roads, Highways, & Bridges
- Site Development
- Space Planning
- Surveying
- Water & Wastewater Systems

# Awards



**AMERICAN SOCIETY OF CIVIL ENGINEERS - NATIONAL - SUPERIOR EMPLOYER AWARD, 2009, Support of Young Professionals in the Private Sector.**

**AMERICAN COUNCIL OF ENGINEERING COMPANIES-WV - ENGINEERING EXCELLENCE AWARD, 2009, Gold Award - Special Projects Category for the Mercer County Airport Runway Safety Area Project.**

**AMERICAN INSTITUTE OF ARCHITECTS - HONOR AWARD FOR EXCELLENCE IN ARCHITECTURE, 2008 - Upshur County Courthouse Restoration and Renovations.**

**AMERICAN COUNCIL OF ENGINEERING COMPANIES-WV - ENGINEERING EXCELLENCE AWARD, 2008, Bronze Award - Wastewater Category for the Spring Run State Fish Hatchery Improvements.**

**AMERICAN COUNCIL OF ENGINEERING COMPANIES-WV - ENGINEERING EXCELLENCE AWARD, 2007, Silver Award - Structures Category for the Mercer County Airport Runway Safety Area Project.**

**GARY KING COMMUNITY SERVICE AWARD, 2006. GOOD SCOUT RECIPIENT, 2005.**

**AMERICAN COUNCIL OF ENGINEERING COMPANIES-WV - ENGINEERING EXCELLENCE AWARD, 2003, Gold Award - Water Treatment Category for the City of Fairmont Water Treatment Plant Project.**

**AMERICAN COUNCIL OF ENGINEERING COMPANIES-WV - ENGINEERING EXCELLENCE AWARD, 2002, Gold Award - Transportation Category for the Raleigh County Memorial Airport Runway Rehabilitation Project.**

**WINNER - "COMMISSIONER'S ENGINEERING ACHIEVEMENT AWARD", 2000, The WVDOT - Division of Highways - Large Bridge Category for WV10 Buffalo Creek Bridge, Logan County, West Virginia.**

**FINALIST - "COMMISSIONER'S ENGINEERING ACHIEVEMENT AWARD", 1999, The WVDOT - Division of Highways - Large Roadway Category for WV10 Buffalo Creek - Taplin Project and 2000 for WV10 Buffalo Creek - Huff Junction Project, both in Logan County, West Virginia.**

**AMERICAN COUNCIL OF ENGINEERING COMPANIES-WV - ENGINEERING EXCELLENCE AWARD, 1999, Silver Award - Water and Wastewater Category, for the City of Beckley Piney Creek Wastewater Treatment Plant Project.**

**ENTREPRENEUR OF THE YEAR AWARD - FINALIST, 1999 and 2000, Sharon L. Chapman, President, was named one of twenty finalists in the West Virginia Area Entrepreneur of the Year Award. Sharon was recognized for leading Chapman Technical Group to become one of the most highly regarded engineering firms in the state after the death of her husband and company founder, Harvey R. Chapman.**

**"EXPECT THE BEST FROM WEST VIRGINIA AWARD", 1998, Charleston Regional Chamber of Commerce. The Expect the Best program was created to recognize West Virginia businesses and organizations that promote quality of life at home, work, and in the community so that individuals and organizations will implement quality principles and practices leading to unprecedented pride and economic growth in West Virginia.**

**HONOR AWARD, West Virginia Chapter of the American Society of Landscape Architects, 1994, Shrewsbury Street Area Redevelopment Plan, for excellence in planning and design projects. Joseph E. Bird, ASLA, Project Manager.**

**"GOVERNOR'S AWARD FOR ENGINEERING EXCELLENCE", 1990, The West Virginia Chapter of the American Public Works Association, in recognition of outstanding Public Works Engineering and Design of Projects within West Virginia.**

**DUNDEE CEMENT COMPANY ANNUAL DESIGN AWARD, 1988, Yeager Airport Taxiway Overlay Project. Harvey R. Chapman, P.E., Project Manager.**

**AUSTIN C. PALMER "OUTSTANDING FACILITY DESIGN AWARD", 1988, City of Bridgeport Swimming Pool Complex. Harvey R. Chapman, P.E., Project Manager.**

**"GEORGE WARREN FULLER AWARD", Harvey R. Chapman, 1984, Robert G. Belcher, P.E., 2001, and Sharon L. Chapman, 2005, American Water Works Association, for distinguished service in the water supply field in the State of West Virginia.**



**ROBERT G. BELCHER, P.E.**  
**Senior Vice President, Engineering**  
**and Project Officer**

**EDUCATION**

West Virginia Institute of Technology, BSCE, 1983

**REGISTRATION**

Civil Engineering, West Virginia, 1996

Civil Engineering, Ohio, 2006

**PROFESSIONAL  
HISTORY**

**January 1987 to Present: Chapman Technical Group**  
Senior Vice President and Project Officer.

**June 1984 to January 1987: Regional Intergovernmental Council**  
Planning and Development Council for West Virginia Region III - Metropolitan  
Planning Organization for Charleston, WV, MSA.

26 years professional experience.

**PROJECT  
EXPERIENCE**

**Water Systems:** Design and project management for numerous water systems for both public and private water companies. Projects include new water treatment plants as large as 10 MGD, improvements to existing plants, water mains and distribution systems. Water storage projects include glass-lined steel tanks, welded high-strength steel tanks, and elevated pedestal tanks.

**Wastewater Systems:** Design and project management for numerous wastewater systems throughout West Virginia. Projects include new, secondary and tertiary wastewater treatment plants as large as 4.5 MGD, improvements to existing plants, small-flow treatment plants, new and rehabilitation of wastewater collection systems, and facility plan updates.

**Miscellaneous:** Design and project management for large highway and bridge projects, airport improvements projects, large stormwater management projects, as well as potable water and wastewater system design for site development projects throughout West Virginia.

**AFFILIATIONS**

Water Environment Association - WV Section  
Contractor's Association of West Virginia - Associate Member  
American Water Works Association - WV Section  
WV Society of Professional Engineers  
American Council of Engineering Companies - ACEC/WV  
WVUIT Civil Engineering Advisory Board  
Ohio Rural Water Association

**AWARDS**

George Warren Fuller Award, 2001



**BRIAN G. HUFFMAN**  
**Buckhannon Branch Office Manager**  
**Project Manager**

**EDUCATION**

West Virginia University, BSCE, 1974

**PROFESSIONAL HISTORY**

**September 1996 to Present: Chapman Technical Group**  
Buckhannon Office General Manager and Project Manager.

**October 1993 to July 1996: City of Buckhannon Water Board**  
Water Department Director.

**April 1991 to October 1993: Chapman Technical Group**  
Buckhannon Office Manager and Project Manager.

**1986 to 1991: Kelley, Gidley, Blair & Wolfe, Inc.**  
Buckhannon Office Manager and Project Manager.

**1983 to 1986: Erwin Industries**  
Civil Project Manager/Senior Design Engineer.

**1979 to 1983: FMC Corporation divested to Erwin Industries, Inc.**  
Senior Design Engineer.

36 years of professional experience.

**PROJECT EXPERIENCE**

**Water/Wastewater Systems:** Design and project management for numerous wastewater and potable water systems for both public and private utility companies.

**Airports:** Design and project management for a number of projects, including pavement rehabilitation, landslide repair, taxiway and apron construction, airfield drainage improvements, airfield lighting systems, SRE buildings, equipment purchases, perimeter fencing, and utility systems. Prepared airport Exhibit 'A's and assisted with DBE plans and updates in accordance with FAA requirements.

**Miscellaneous:** Design and project management for stormwater and sanitary sewer separation projects. City of Buckhannon Water Board Water Department Director and Buckhannon Upshur Airport Authority Member: Responsible for treatment plant and system operations and the development and implementation of a reservoir management and plant optimization program. Design and project management at a paper mill modernization project and numerous coal preparation plants and material handling systems.



**SHAWN D. TUCKER, P.E.**  
**Civil/Airport Engineer**

**EDUCATION**

Fairmont State College, A.S. degree in Civil Engineering Technology, 2001  
Fairmont State College, B.S. degree in Civil Engineering Technology, 2003

**REGISTRATION**

Professional Engineer, West Virginia, 2009  
Registration No. 18480

**PROFESSIONAL  
HISTORY**

**May 2003 to Present: Chapman Technical Group**  
Civil/Airport Engineer.

7 years professional experience.

**PROJECT  
EXPERIENCE**

**Airports:** Project Engineer for several airport projects involving runway extension, pavement rehabilitation, new apron and taxiway design, runway safety area improvements, airfield lighting and marking and drainage improvements.

**AFFILIATIONS**

American Society of Civil Engineers



**WALTER R. MITCHELL**  
**Senior Construction Observer**

**EDUCATION**

Numerous technical courses on electronic/electrical fundamentals and specific equipment taught by FAA, US Army and Air Force.

Numerous management and staff courses taught by the FAA's Center for Management Development, PalmCoast, FL

WVDOT-DOH Asphalt Inspector/Technician Refresher Course, 1998

**PROFESSIONAL HISTORY**

**January 1997 to Present: Chapman Technical Group**  
Senior Construction Observer.

**September 1990 to January 1997: Federal Aviation Administration**  
Manager of the Charleston, West Virginia Airway Facilities Sector Field Office.

**January 1983 to September 1990: Federal Aviation Administration**  
Supervisor of the Charleston, West Virginia Airways Facilities Navigational Aids and Communications Unit.

**July 1974 to January 1983: Federal Aviation Administration**  
Communications Technician assigned to the New York Common IFR Room at JFK Airport, New York.

**April 1968 to July 1974: US Army, Picatinny Arsenal, Dover, NJ**  
Civilian Electronics Technician, Ammunition Engineering Directorate.

**October 1967 to April 1968: Radio Frequency Labs, Boonton, NJ**  
Electronics Technician.

**October 1959 to October 1967: US Air Force**  
Electronics Technician and crew member on EC-121H aircraft.

51 years professional experience.

**PROJECT EXPERIENCE**

Responsibilities include all aspects of project coordination and observation from commencement of construction through completion.

Other responsibilities included the installation, operation, maintenance and certification of all FAA facilities in Southern West Virginia and Yeager Airport, production engineering studies on a wide variety of electronic fuzing for munitions and dispensing systems, and final electrical testing of telemetering and control equipment.

**AFFILIATIONS**

Past Board of Directors, United Way Kanawha Valley  
Past Board of Trustees, West Virginia Rehabilitation Foundation



**JEFFREY D. BUBAR**  
**Aviation Consultant**

**EDUCATION**

University of Maine, BS, 1968  
West Virginia University, MS, 1971  
U.S. Army Medical Field Service School, 1971  
U.S. Air Force Jet Pilot Training, 1972-1973

**PROFESSIONAL  
HISTORY**

**2008 to Present: Chapman Technical Group**  
Aviation Consultant.

**1996 to 2008: Chapman Technical Group**  
Vice President, Project Manager, Corporate Pilot.

**1981 to 1996: Central West Virginia Regional Airport Authority**  
Airport Director.

**1979 to 1981: Central West Virginia Regional Airport Authority**  
Assistant Airport Director.

**1979 to 1981: Central West Virginia Regional Airport Authority**  
Aviation Assistant for Operations and Plans.

**1978 to 1985: Fiftyten Sole Proprietorship**  
Airport Master Records Contractor for Federal Aviation Administration.

**1973 to 1996: 130th Airlift Wing, West Virginia Air National Guard**  
Command Pilot, Air Operations Officer, Squadron Commander.

**1973 to 1978: West Virginia Department of Health**  
Chemist, Proficiency Testing Program Administrator.

38 years of aeronautical and aviation management experience.

**PROJECT  
EXPERIENCE**

Consult with Chapman Technical Group on all matters involving airport planning and construction work. Advise planners, engineers and designers on technical issues related to Federal Aviation Regulations, FAA Advisory Circulars and Orders, aircraft performance characteristics, flight procedures and air traffic control. Counsel company staff on matters related to airport management and governance and airport client relations.

**AFFILIATIONS**

Aircraft Owners and Pilots Association  
Board of Directors, West Virginia Aviation Museum Foundation  
Past Director, St. Albans Renaissance Group  
Past Member, West Virginia Airport Managers Association  
Past Member, West Virginia Aeronautics Commission  
Past Member, American Association of Airport Executives  
Past Director, Southeast Airport Managers Association  
Past Director, Charleston Convention and Visitors Bureau  
Past Director, Ameribank; Charleston, West Virginia

# Recent Airport Projects

**Key:** U.C. - Under Construction  
I.D. - In Design/Progress

Project Item	Services			
	Design	Construction	Equipment Acquisition	Study/Report, Misc.
<b>Upshur County Regional Airport, Buckhannon, WV</b>				
<b>Airport Identifier: W22</b>				
Acquire Snow Removal Equipment			X	
Construct Snow Removal Equipment Building	X	X		
Airport Master Plan				X
Install AWOS (III-P)	X	X		
Install Main Apron Lighting	X	X		
Construct Aircraft Parking Apron and Access Taxiway	X	X		
Extend Runway 11	X	X		
Evaluate Hangar Foundation				X
Construct Hangars	X	X		
Perform Obstruction Survey				X
Install Perimeter Fencing	X	X		
Install South Apron Lighting	X	X		
Rehabilitate Main Apron	X	X		
Construct South Apron Access Road	X	X		
<b>Elkins-Randolph County Airport, Elkins, WV</b>				
<b>Airport Identifier: EKN</b>				
Construct Partial Parallel Taxiway	X	X		
Conduct Environmental Assessment (Extend Runway 14-32)				X
Perform Runway Pavement Analysis				X
Rehabilitate Runway 14-32	X	X		
Acquire Snow Removal Equipment			X	
Acquire Snow Removal Equipment			X	
Remove Obstructions	X	X		
Install Airfield Guidance Signs	X	X		
Install Precision Approach Path Indicator	X	X		
Remove Obstructions	X	X		
Improve Runway 5 Runway Safety Area	X	X		
Update Airfield Markings	X	X		
Airport Master Plan w/ AAAS Survey				X
<b>Mason County Airport, Point Pleasant, WV</b>				
<b>Airport Identifier: 312</b>				
Construct Partial Parallel Taxiway	X	X		
Airport Master Plan				X
Construct Snow Removal Equipment Building	X	X		
Install Terminal Area Sanitary Sewer Line	X	X		
Install Perimeter Fencing	X	X		
Install Airport Beacon	X	X		
Remove Obstructions	X	X		
Conduct Runway Safety Area Report				X
Install AWOS (III-P)	X	X		
Remove Obstructions	X	X		
Remove Obstructions	X	X		
Install Airfield Guidance Signs	X	X		
Rehabilitate Runway 7-25	X	X		



Project Item	Services			
	Design	Construction	Equipment Acquisition	Study/Report, Misc.
<b>Raleigh County Memorial Airport, Beaver, WV</b>				
<b>Airport Identifier: BKW</b>				
Rehabilitate Runway 1-19	X	X		
Conduct Obstruction Survey				X
Construct Shell Building		X		
Improve Runway 19 Safety Area	X	X		
Improve Terminal Building	X	X		
Install Emergency Generator	X	X		
Acquire Snow Removal Equipment			X	
Acquire ARFF Truck			X	
Rehabilitate Runway 1-19 and Apron Exit Taxiways	X	X		
Update Airfield Signage Plan				X
Install Supplemental Wind Cone	X	X		
Update Exhibit "A"				X
Develop Blue Angels Airshow Template				X
Repair ARFF Building Roof	X	X		
Rehabilitate Main Apron	X	X		
Rehabilitate General Aviation Apron	X	X		
Rehabilitate Airfield Lighting	X	U.C.		
<b>Mingo County Airport, Williamson, WV</b>				
<b>Airport Identifier: 410</b>				
Remove Threshold Siting Plane Obstructions	X	X		
Repair Runway 6-24	X	X		
Rehabilitate Runway 6-24	X	X		
Acquire Snow Removal Equipment			X	
Airport Master Plan for New Airport				X
<b>New Mingo County Airport, Varney, WV</b>				
<b>Airport Identifier: EBD</b>				
Construct Runway 8-26	X	U.C.		
Construct Parallel Taxiway and Apron	X	U.C.		
Install Approach Aids	X			
Install Perimeter Fence	X			
Construct Airport Access Road (Done by Sub-Consultant)	I.D.			
Install Airfield Lighting System	X	U.C.		
<b>Wyoming County Airport, Pineville, WV</b>				
<b>Airport Identifier: 116</b>				
Rehabilitate Runway 8-26	X	X		
Rehabilitate Airfield Lighting	X	X		
Improve Runway 7 Safety Area	X	X		
Install AWOS (III-P)	X	X		
Install Airport Beacon	X	X		
Remove Obstructions	X	X		
Install Perimeter Fence	X	X		
Install Apron Security Lighting	X	X		
Prepare Airport Layout Plan Update Report				X

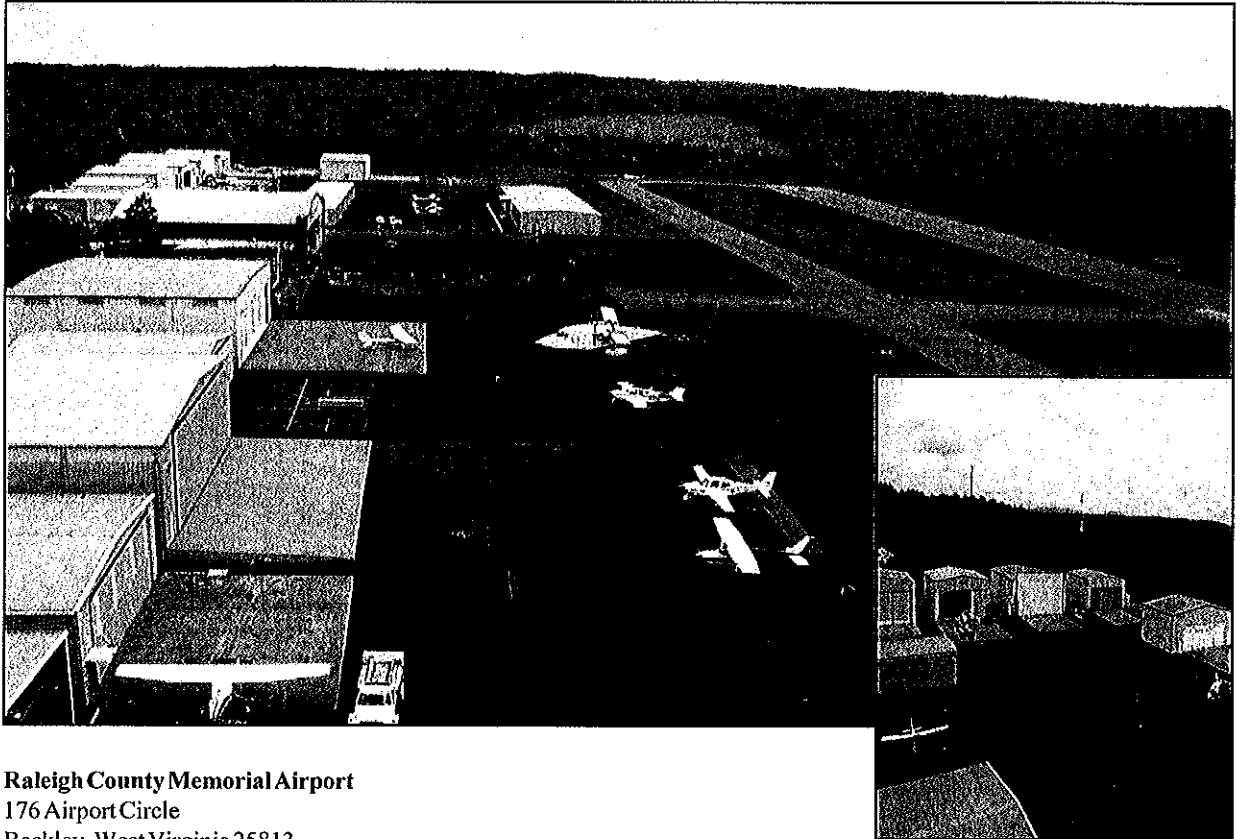
Project Item	Services			
	Design	Construction	Equipment Acquisition	Study/Report, Misc.
<b>Eastern West Virginia Regional Airport, Martinsburg, WV</b>				
<b>Airport Identifier: MRB</b>				
Install Security Fence	X	X		
Construct Partial Parallel Taxiway	Takeover	X		
General Aviation Area Master Plan				X
Develop Photo Overlay of Industrial Park				X
Construct Terminal Aircraft Parking Apron	X	X		
Construct Airfield Electrical Vault/Terminal Building Basement	X	X		
Conduct Environmental Assessment (Terminal Area)				X
Acquire Snow Removal Equipment			X	
Construct General Aviation Terminal Building	X	X		
Rehabilitate Taxilanes	X	X		
Construct South Aircraft Parking Apron	X	X		
Construct Parallel Taxiway (Multi-Phase)	X	U.C.		
Construct Terminal Area Development (Loop Roadway/Parking)	X	X		
Modify Hangar Door (Private Client)	X			
Hangar Development Area Site Plan (Private Client)	X	X		
Hangar Development Area Site Plan (Private Client)	X			
Construct Runway 1-19	I.D.			
Construct T-Hangar Taxilanes	X	X		
Develop Fuel Farm Lease Description (Private Client)				X
Install Airport Beacon	X	X		
Conduct AAAS/LPV Airspace Survey				I.D.
Rehabilitate General Aviation Apron	X	X		
<b>Philippi-Barbour County Regional Airport, Philippi, WV</b>				
<b>Airport Identifier: 79D</b>				
Improve Runway 8-26 Runway Safety Area	X	X		
Improve Runway 8 Runway Safety Area	X	X		
Construct Aircraft Parking Apron	X	X		
Install PAPI, Wind Cone, and Airport Beacon	X	X		
Install Perimeter Fence	X	X		
Airport Master Plan				X
Remove Obstructions	X	X		
Relocate Runway 8 Threshold	X	X		
Construct Airport Access Road	X	X		
<b>Braxton County Airport, Sutton, WV</b>				
<b>Airport Identifier: 481</b>				
Install AWOS (III-P)	X	X		
Install Perimeter Fencing	X	X		
Construct Taxiway	X	X		
Remove Obstructions	X	X		
Install Runway End Identification Lights	X	X		
Install Runway 19 Precision Approach Path Indicator	X	X		
Conduct Obstruction Removal Environmental Assessment				I.D.
<b>Logan County Airport, Logan, WV</b>				
<b>Airport Identifier: 6L4</b>				
Rehabilitate Runway 6-24	X	X		
Airport Master Plan				X
Rehabilitate Airfield Lighting	X			

Project Item	Services			
	Design	Construction	Equipment Acquisition	Study/Report, Misc.
<b>Mercer County Airport, Bluefield, WV</b>				
<b>Airport Identifier: BLF</b>				
Rehabilitate Terminal Building (Multi-Year)	X	U.C.		
Install Airfield Lighting Regulators	X	X		
Conduct Runway Safety Area Report				X
Improve Runway 5 Safety Area	X	X		
Remove Obstructions	X	X		
Rehabilitate Airfield Marking	X	X		
Update Airfield Signage Plan				X
Install Fuel Farm	X	X		
Improve Runway 23 Safety Area	X	X		
Install Precision Approach Path Indicator	X	X		
Install Supplemental Wind Cone	X	X		
Rehabilitate Airfield Lighting	X	U.C.		
Airport Master Plan				I.D.
<b>Grant County Airport, Petersburg, WV</b>				
<b>Airport Identifier: W99</b>				
Rehabilitate Main Apron and Construct Taxiway	X	X		
Airport Master Plan				X
Install Runway End Identification Lights and Guidance Signs	X	X		
Update Airfield Markings	X	X		
<b>Mid-Ohio Valley Regional Airport, Parkersburg, WV</b>				
<b>Airport Identifier: PKB</b>				
Perform Independent Fee Analysis				X
Perform Independent Fee Analysis				X
Perform Independent Fee Analysis				X
<b>Yeager Airport, Charleston, WV</b>				
<b>Airport Identifier: CRW</b>				
Perform Topographical Survey (Air National Guard)				X
<b>Tri-State Airport, Huntington, WV</b>				
<b>Airport Identifier: HTS</b>				
Perform Obstruction Survey				X
<b>Louis Bennett Field (WVU), Jane Lew, WV</b>				
<b>Airport Identifier: 491</b>				
Conduct Public/Private Use Study				X

# Airports



## Raleigh County Memorial Airport – Rehabilitate General Aviation Apron



**Raleigh County Memorial Airport**  
176 Airport Circle  
Beckley, West Virginia 25813

Chapman Technical Group provided design and construction phase services for a project to rehabilitate the general aviation apron at the Raleigh County Memorial Airport in Beaver, West Virginia. The existing pavement surface was displaying areas of moderate to severe surface and alligator cracking, with one area adjacent to an existing hangar suffering from settlement associated with complete pavement failure. It was determined this area of pavement failure was caused by the deterioration and collapse of an abandoned underground fuel storage tank. The scope of the project consisted of removing the collapsed storage tank and associated contaminated material and rebuilding the area to existing grade. Once the tank was removed and the area repaired, the remainder of the apron was rehabilitated by a combination of selective pavement milling and replacement and the application of hot pour crack and joint sealing filler. The project contained approximately 11,500 square yards of select pavement milling, 1,500 linear feet of crack and joint sealing filler placement, 1,000 linear feet of full depth crack repair, 600 square yards of full depth pavement repair, and approximately 3,400 tons of P-401 plant-mix bituminous pavement. The project also included pavement marking and the installation of a concrete trench drain and various other drainage structures.

Southern West Virginia Paving, Inc. was the prime contractor for the paving portion of the project and J.C. Bosley Construction, Inc. was the prime contractor for the removal of the abandoned underground storage tank. Construction was completed on this \$760,000 project in early August 2009.

# Airports



## Mason County Airport – Rehabilitate Runway 7-25



**Mason County Airport**  
200 Sixth Street  
Point Pleasant, WV 25550

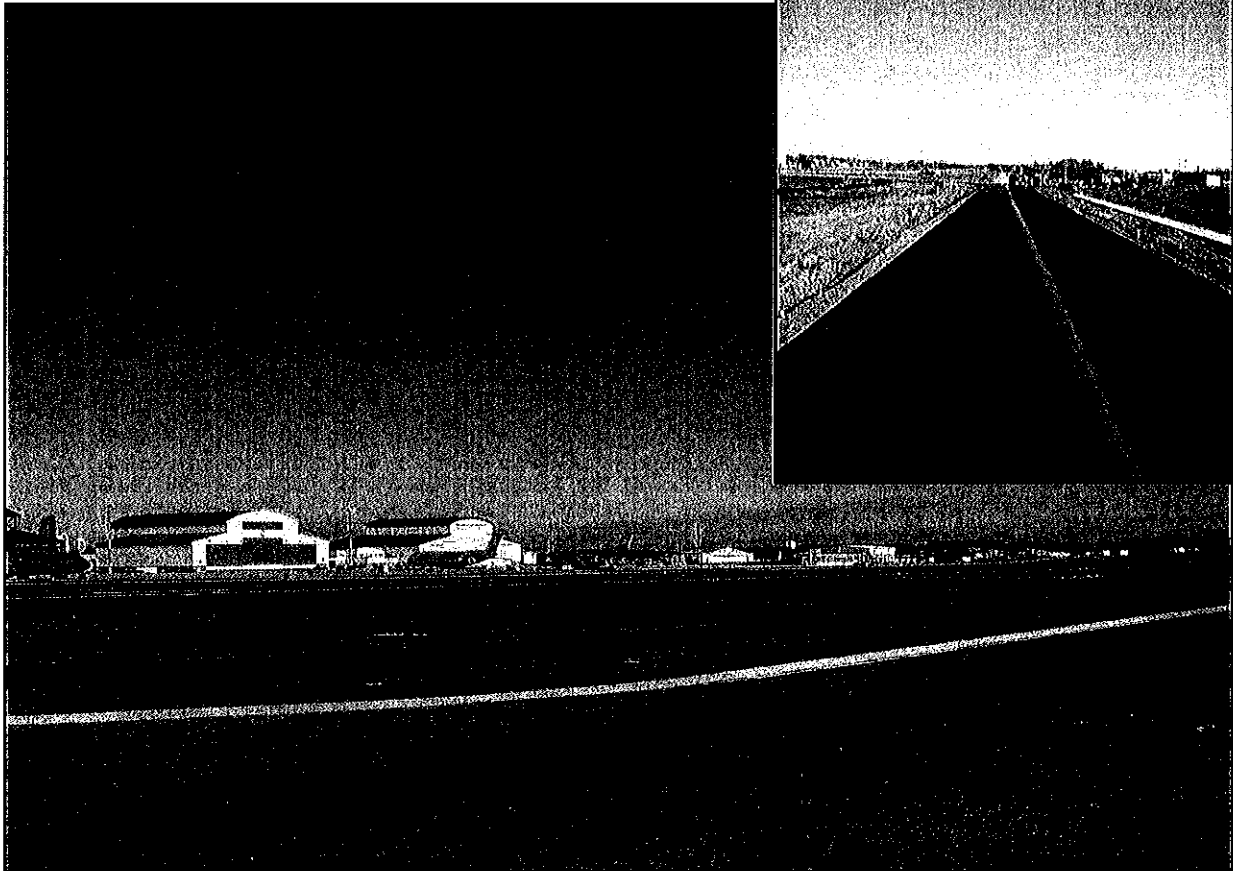
Chapman Technical Group provided design and construction phase services for the rehabilitation of Runway 7-25 and the improvement of the runway safety areas at the Mason County Airport. The existing pavement surface had deteriorated into an extreme state of disrepair and was not able to be rehabilitated using a typical crack repair and pavement overlay process. The reclamation of the top 12" of pavement structure and placement of 4" of new P-401 plant-mix bituminous pavement was determined to be the most economical way to achieve an adequate level of rehabilitation. The rehabilitation consisted of reclaiming approximately 33,333 square yards of pavement surface and placing approximately 8,500 tons of P-401 plant-mix bituminous pavement. The safety area improvements were accomplished by placing approximately 14,500 cubic yards of select fill to bring the surface gradient into compliance with current FAA design standards. The project also included installing two medium intensity threshold lights on each end of the runway and replacing portions of the runway edge light globes to designate the runway caution zone.

Mountaineer Contractors, Inc. was the prime contractor, West Virginia Paving, Inc. was the paving sub-contractor, Brown Electric Company, Inc. was the electrical sub-contractor and Base Construction Tech, Inc. was the pavement reclamation sub-contractor. Construction was completed on this \$1.67 million project in late November 2009.

# Airports



## Eastern West Virginia Regional Airport – Construct Taxiway “E” – Phase III



**Eastern West Virginia Regional Airport**  
170 Aviation Way  
Martinsburg, West Virginia 25405

Chapman Technical Group provided design and construction phase services for the third phase of a project to construct a full length parallel taxiway, designated Taxiway “E”, at the Eastern West Virginia Regional Airport in Martinsburg, West Virginia. This phase of the project included the construction of approximately 1,000 linear feet of taxiway. The project included 2,375 cubic yards of unclassified excavation, 1,905 cubic yards of crushed aggregate base course, and approximately 1,400 tons of P-401 plant-mix bituminous pavement. The project also included installing medium intensity taxiway edge lights, airfield guidance signs, miscellaneous drainage structures, and pavement marking.

Panhandle Builders and Excavating, Inc. was the prime contractor, and P&G Electric was the electrical sub-contractor. Construction was completed on this \$526,000 project in early December 2009.

## References



Mr. Tom Cochran, Airport Manager  
Raleigh County Memorial Airport  
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Facsimile: (304) 364-4690

Mr. Glenn Yost, Chairman  
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Facsimile: (304) 752-6666

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Grant County Airport  
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